

## Claims

- [c1] 1.A rotary electrical machine comprised of a pair of relatively rotatable components comprising an armature having a core from which a plurality of circumferentially spaced pole teeth extend in a radial direction, coil windings formed around said pole teeth and a permanent magnet component having a plurality of circumferentially spaced permanent magnets in confronting and closely spaced relation to the tip ends of said pole teeth to define a generally cylindrical gap therebetween, at least one of said pole teeth and said permanent magnets having planar surfaces facing said gap.
- [c2] 2.A rotary electrical machine as set forth in claim 1, wherein the permanent magnets have planar surfaces facing the gap.
- [c3] 3.A rotary electrical machine as set forth in claim 1, wherein the pole teeth have planar surfaces facing the gap.
- [c4] 4.A rotary electrical machine as set forth in claim 3, wherein both the pole teeth and the permanent magnets have planar surfaces facing the gap.

- [c5] 5.A rotary electrical machine as set forth in claim 2, wherein the permanent magnets are spaced from each other at equal circumferential distances.
- [c6] 6.A rotary electrical machine as set forth in claim 5, wherein the pole teeth have planar surfaces facing the gap.
- [c7] 7.A rotary electrical machine as set forth in claim 6, wherein both the pole teeth and the permanent magnets have planar surfaces facing the gap.
- [c8] 8.A rotary electrical machine as set forth in claim 2, wherein the permanent magnets are spaced from each other at different circumferential distances.
- [c9] 9.A rotary electrical machine as set forth in claim 8, wherein the pole teeth have planar surfaces facing the gap.
- [c10] 10.A rotary electrical machine as set forth in claim 9, wherein both the pole teeth and the permanent magnets have planar surfaces facing the gap.